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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/665,432	09/22/2003	Hideaki Naruse	Q77419	6506	
23373 75	90 03/03/2006		EXAMINER		
SUGHRUE M	-	THOMPSON, CAMIE S			
2100 PENNSYI SUITE 800	LVANIA AVENUE, N.W.	ART UNIT	PAPER NUMBER		
WASHINGTON	N, DC 20037	1774			
		•	DATE MAILED: 03/03/2000	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)				
Office Action Summary		1		NARUSE ET AL.				
		10/665,432						
	Omoc Addon Gammary	Examiner		Art Unit				
The MAIL INC DATE of this communication		Camie S. Tho		1774	rocc			
Period fo	The MAILING DATE of this communication app or Reply	cears on the co)ver sneet with the	correspondence addi				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS 36(a). In no event, will apply and will exe, cause the applicat	COMMUNICATION however, may a reply be to the come SIX (6) MONTHS from to become ABANDON	N. imely filed in the mailing date of this com ED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed on RCE	filed 1/20/06.						
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under E	Ex parte Quay	<i>le</i> , 1935 C.D. 11, 4	153 O.G. 213.				
Disposit	ion of Claims							
4) 🖂	Claim(s) 1-7 and 9-20 is/are pending in the app	plication.						
, —	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-7,9,10 and 12</u> is/are rejected.							
7)🖂	Claim(s) 11 and 13-20 is/are objected to.							
8)	Claim(s) are subject to restriction and/o	or election requ	uirement.					
Applicat	ion Papers							
9)[The specification is objected to by the Examine	er.						
10)	The drawing(s) filed on is/are: a) acc	epted or b)	objected to by the	Examiner.				
	Applicant may not request that any objection to the	drawing(s) be h	neld in abeyance. So	ee 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	tion is required	if the drawing(s) is o	bjected to. See 37 CFR	t 1.121(d).			
11)	The oath or declaration is objected to by the Ex	kaminer. Note	the attached Offic	e Action or form PTC)-152.			
Priority (under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	ts have been rets have been retrieved to the second to the	eceived. eceived in Applica s have been receiv 7.2(a)).	tion No ved in this National S	tage			
2) Notice 3) Infor	et(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	4) 5) 6)	Interview Summar Paper No(s)/Mail [Notice of Informal Other:	•	152)			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 20, 2006 has been entered.
- 2. Applicant's amendment and accompanying remarks filed November 17, 2005 and January 20, 2006 have been acknowledged.
- 3. Examiner acknowledges the Declaration Under 37 CFR 1.132 filed November 17, 2005.
- 4. Examiner acknowledges amended claims 10 and 20.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-7, 9-10 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Kawasumi et al., U.S. Patent Number 4,810,734.

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Kawasumi discloses a composite material that is composed of a polymer and a layered silicate as per instant claim 1 (see column 1, line 67-column 2, line 2). The reference discloses that silicate is modified so as to connect to the polymer (see column 3, lines 20-32). It is discloses in the reference that the silicate can be modified with a quaternary salt of a nitrogen compound such as 4-vinylpryridimium chloride (see column 4, lines 1-10). Reference claim 6 discloses that the polymer can be a polycarbonate or a polyether sulfone. Additionally, the reference discloses that the polymer can be a vinyl polymer such as norbornadiene which is a olefin metathesis polymer (see column 5, lines 7-15).

7. Claims 11 and 13-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art does not provide for the recited polymer composition, further including an organic modified layered silicate containing a compound selected from a tetraphenylphosphonium compound. Additionally, the prior art does not provide for an organic EL device or substrate comprising a film including the recited polymer composition.

Response to Arguments

8. Applicant's arguments filed November 17, 2005 and January 20, 2006 have been fully considered but they are not persuasive. Applicant argues the Kawasumi reference does not disclose or render obvious the polymer composition of the present claims. The Kawasumi reference discloses a composite material comprising a polymer such as polycarbonate or

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polyether sulfone and a layered silicate constituting a clay mineral such as vermiculite and can contain a swelling agent that is comprised of a nitrogen-containing heterocyclic such as 4-vinylpyridiumn chloride (see column 4, lines 1-10). The reference has the same components, as does applicant for instant claims 1-4 and 9. Although applicant has submitted a declaration and has reproduced Example 1 using 12-aminodecanoic acid, the Kawasumi reference discloses the same components as recited by applicant. Therefore, it is expected that the polymer composition of the Kawasumi reference is the same as the polymer composition as recited by applicant. The rejection is maintained.

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Camie S. Thompson whose telephone number is (571) 272-1530. The examiner can normally be reached on Monday through Friday from 7:30 am to 4:00 pm. If

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attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena L Dye, can be reached at (571) 272-3186. The fax phone number for the Group is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SUPERVISORY PATENT EXAMINER

A-U-1774 2/28/04